

ABSTRACT

A broad band cholesteric liquid crystal film of the present invention comprises a cholesteric liquid crystal film obtained by polymerizing a liquid crystal mixture containing a polymerizable mesogen compound (a), a polymerizable chiral agent (b) and a photopolymerization initiator (c) between two substrates with ultraviolet light, and has a reflection bandwidth of 200 nm or more. The broad band cholesteric liquid crystal film of the present invention has a broad reflection band and is excellent in durability.